

ATTENTION: Refer to the appropriate shop manual for your vehicle to obtain specific service procedures for this part. If you do not have a service manual or lack the skill to install this part, it is recommended that you seek the services of a qualified technician. Pay special attention to all cautions and warnings included in the shop manual. Read and follow all instructions carefully.

**2005 Chevrolet S10 Blazer, 2004–1992 Chevrolet/GMC S10/S15 Jimmy/Sonoma/
Pick Up, 2000–1998 Isuzu Hombre, 1993–92 GMC S15 Typhoon,
1997–92 Oldsmobile Bravada**

DTC-001: RAM Standby Power Loss

Description:

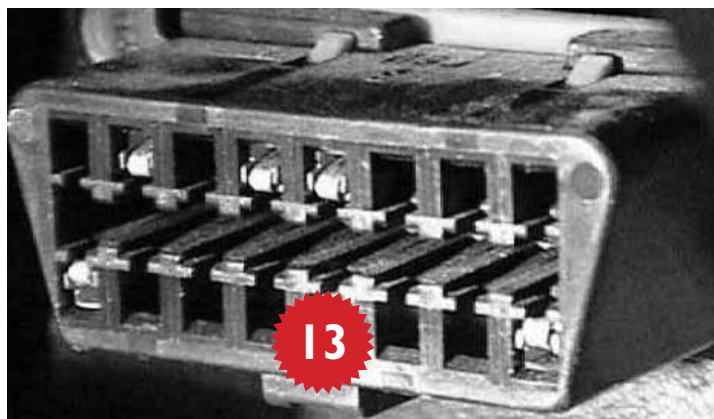
The transfer case control module (TCCM) has constant battery voltage coming from the positive feed side of the battery. When the Ignition is in the ON position, the transfer case control module (TCCM) performs a self-diagnostic test procedure. The self-diagnostic test procedure performs various checks to verify that the current memory is the same as the previous memory when the ignition was last turned off. The self-diagnostic procedure will then determine whether the random access memory (RAM) standby power-supply to the transfer case control module (TCCM) was interrupted -(pin C6). If the RAM power is interrupted, then the diagnostic trouble codes (DTCs) would be cleared from the modules memory. If the self-diagnostic test procedure fails, the TCCM will then set a diagnostic trouble code DTC-001.

How to access the diagnostic trouble code (DTC):

The DTCs are displayed on the transfer case shift control switch. Please follow the procedure below to acquire the DTCs:

STEP 1: Turn the ignition off for ten (10) seconds.

STEP 2: Using an alligator clip or probe, connect to PIN 13 on the data link connector (DLC) and connect to a ground source. **NOTE:** The data link connector (DLC) is located under the driver side portion of the instrument panel.



Disclaimer:

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DIAGNOSTIC TROUBLE CODES: TRANSFER CASE MOTOR

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STEP 3: Turn the ignition to the "ON" position. **DO NOT START THE VEHICLE!**

STEP 4: Count the amount of flashes that the transfer case shift control switch performs.

NOTE: On most vehicles, there will be an initial flash to signify the start of the test and then a brief pause. After the initial pause, count how many times the switch flashes.

Once the flashes have stopped, there will be another brief pause and the diagnostic procedure will end.

Diagnostic trouble code (DTC) description:

DTC-001

When to clear a DTC:

The diagnostic trouble code (DTC) should only be erased once the positive voltage concern has been corrected.

How to clear a DTC:

The DTC will clear once the ignition has been cycled five (5) times.

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DTC-002: Motor A or Motor B Failure

Description:

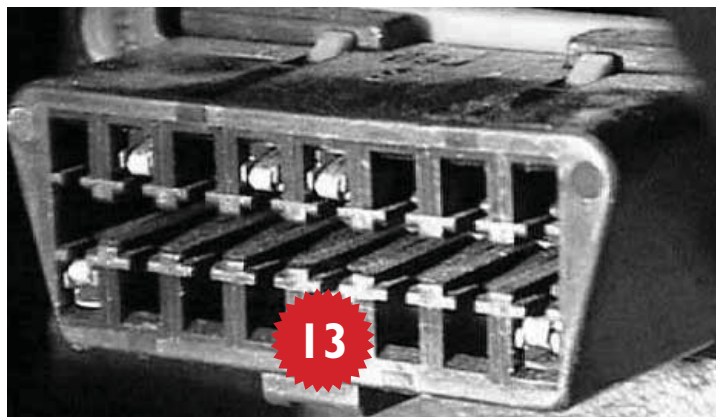
The transfer case encoder motor houses four (4) separate positions. The four positions are used to communicate with the transfer case control module (TCCM), telling it what mode (2HI, 4HI, 4LO, N) the transfer case is currently in, or if the transfer case is in between gears. While the transfer case motor is shifting to a selected position, the transfer case control module (TCCM) monitors the transfer case encoder motor circuit for the proper operating positions. While the transfer case motor is shifting to a selected position, the transfer case encoder motor is monitoring the position of the transfer case motor. If at any time the transfer case encoder motor detects a skipped position or does not follow the specified sequence, the encoder motor will set a hard encoder fault code and will default to a 2HI, 4HI, 2HI, 4LO shift pattern. The encoder motor must fail twenty five percent (25%) of the time for the transfer case control module (TCCM) to set a hard diagnostic trouble code (DTC), which would be a DTC-002.

How to access the diagnostic trouble code (DTC):

The DTCs are displayed on the transfer case shift control switch. Please follow the procedure below to acquire the DTCs:

STEP 1: Turn the ignition off for ten (10) seconds.

STEP 2: Using an alligator clip or probe, connect to PIN 13 on the data link connector (DLC) and connect to a ground source. **NOTE:** The data link connector (DLC) is located under the driver side portion of the instrument panel.



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STEP 3: Turn the ignition to the “ON” position. **DO NOT START THE VEHICLE!**

STEP 4: Count the amount of flashes that the transfer case shift control switch performs.

NOTE: On most vehicles, there will be an initial flash to signify the start of the test and then a brief pause. After the initial pause, count how many times the switch flashes.

Once the flashes have stopped, there will be another brief pause and the diagnostic procedure will end.

Diagnostic trouble code (DTC) description:

DTC-002 is an encoder circuit malfunction.

When to clear a DTC:

The diagnostic trouble code (DTC) should only be erased once the encoder motor has been replaced or repaired.

How to clear a DTC:

The DTC will clear once you disconnect the positive side of the battery for thirty (30) seconds and have repaired the encoder motor concern.

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DTC-003: Motor A or Motor B Failure

Description:

The code DTC-003 is a failure in the transfer case encoder motor circuits. Possible causes of a DTC-003 are the following:

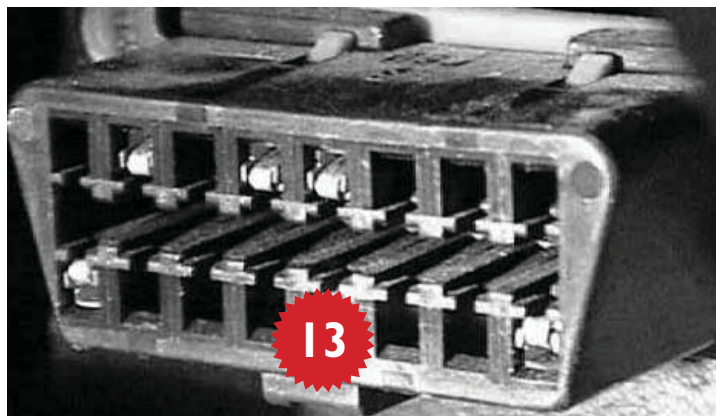
1. A dead short in the Transfer Case Motor or Transfer Case Control Module.
2. A failed internal power relay in either the Transfer Case Control Module (TCCM)
3. A bad ground on the positive side battery voltage leading to Motor Control A or Motor Control B.
4. An open fault on the battery voltage to ground for Motor Control A or Motor Control B.

How to access the diagnostic trouble code (DTC):

The DTCs are displayed on the transfer case shift control switch. Please follow the procedure below to acquire the DTCs:

STEP 1: Turn the ignition off for ten (10) seconds.

STEP 2. Using an alligator clip or probe, connect to PIN 13 on the data link connector (DLC) and connect to a ground source. **NOTE:** The data link connector (DLC) is located under the driver side portion of the instrument panel.



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STEP 3: Turn the ignition to the “ON” position. **DO NOT START THE VEHICLE!**

STEP 4: Count the amount of flashes that the transfer case shift control switch performs.

NOTE: On most vehicles, there will be an initial flash to signify the start of the test and then a brief pause. After the initial pause, count how many times the switch flashes.

Once the flashes have stopped, there will be another brief pause and the diagnostic procedure will end.

Diagnostic trouble code (DTC) description:

DTC-003 is a Motor A or Motor B circuit failure.

When to clear a DTC:

The diagnostic trouble code (DTC) should only be erased once the encoder motor circuit failure has been replaced or repaired.

How to clear a DTC:

The DTC will clear once you disconnect the positive side of the battery for thirty (30) seconds and have repaired the encoder motor concern.

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